OMEGA COMPLEX

by Izu and Shonen

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Omega Complex 13 END

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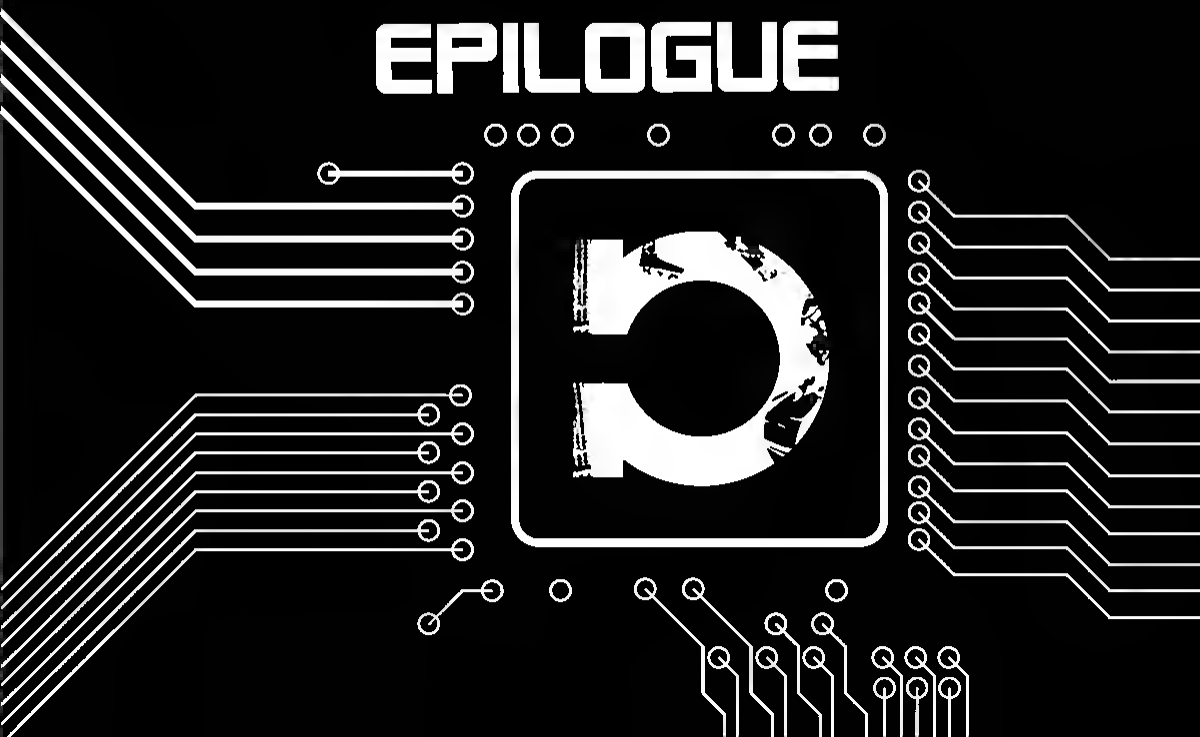
EPILOGUE



HOLLYWOOD
EVERYONE.
HOLLYWOOD, CALIFORNIA.
9 SEPTEMBER 2001.
Did I have a choice? Mother threw a fit and said the children always saw their other grandparents
Stop pouting, Anankе, it's you who insisted we get up early on a Sunday and have brunch at your parents' house!
Well, anyway. We'll at least get to meet Khan's new girlfriend, it might be fun
Super, Karma. We'll watch him fight with his ex again. Sonia can't restrain herself! She is becoming more feisty with age.

Stop talking like that to Khan, Sonia! You aren't together anymore and there are people around
Is the barbecue ready or are we gonna eat it tomorrow?
Coming, coming!
Tsss... Why is it the men who work?
Sorry, grandpa. It's not my fault that this idiot brings a new bimbo to each family gathering!
You'll get one. Yoshitsune, here they are!
That's right! Sara, what's taking them so long? I want a break!
When will the Manhattans arrive, Mom?

Hey Bob what did you do to your children?
Calm down, they're playing PlayStation
Where are my parents?
Your mother's showing Khan's girlfriend around the house. Wood must certainly be working
Damn it, he's screwing a physics prof! Honestly is he the kind to sleep with anyone as long as she's a prof?
Here is the highlight of the show!

Not bad, his new one! She can't be any worse than Sonia anyway...
AICHOO!
POW
Who knows, perhaps in another life?
I'm Angie, nice to meet you...
Kama... Err... Yeah... Nice to meet you too... Have we perhaps met somewhere before?

Ha ha ha! I will never be able to separate those two, huh?
- 00 / 46 / 52
No one should talk to me about free will anymore. Human beings will always be slaves to their emotions, after all...
Anyway, nothing is closer to the right than the wrong. This world is good the way it is.

BONUS

PROFESSOR ANGELIQUE WILLIAM'S EXTRA CREDIT

OMEGA COMPLEX

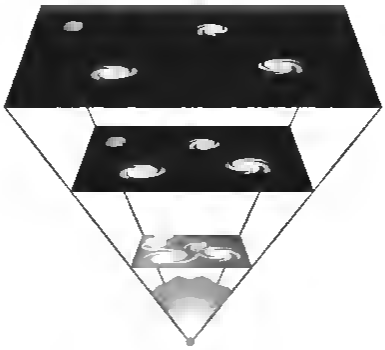
Be warned from the start: this last course will be more fiction than science! In fact, we will go into theories which, although put forward by scientists, are impossible to verify (at least for the moment…) and thus, for now, are more in the domain of philosophy. Philosopher Angie, let us start!

And for the last time, hang on!

Ade.

A Big Crunch

The latest cosmological data shows that our Universe is expanding, and that this expansion accelerates under the influence of a mysterious energy called "dark energy". But what will happen afterwards? Will it continue to expand indefinitely? Numerous theories have been formulated to answer these questions. According to one of these theories, the universe will reach a brief period of stasis, and then contract until the "Big Crunch". According to this scenario, as the Universe contracts the temperature and density will increase, breaking down all material structures into elementary particles (have a look at my previous course if this doesn't mean anything to you). In this case, the theory of relativity foresees the disappearance of space-time and the matter it contains, and after that…nothing big will happen, really. A different opinion is that the universe will shrink until a certain state, and then another phase of expansion will begin.



(source http //commons wikimedia org/wiki/File Big_crunch png?uselang=fr)

The Big Crunch: everything converges to the Omega Point.

A mystic point…

This idea was taken up in part by Franck Tipler, an American scientist from the 20th century. He explains that this contraction will end up at a particular point, the famous Omega Point, which he identifies as God! Science is already on slippery ground with this kind of theory. If we also try to include religion on top of it like Franck Tipler, we won't be able make any sense out of it! Anyway, this point will be the culmination of the evolution of intelligent life (an idea borrowed from Pierre Teilhard de Chardin, who is at the origin of the theory's name), and the knowledge gained until then will be enough to enable the eternal simulation of the lives of all beings that existed in the universe. A resurrection in a virtual paradise, in a way.

And Omega Complex in all this?

In the manga, Professor Wood tries to reach the Omega Point by triggering the Big Crunch in order to gain control of this virtual reality (while he's at it…). To trigger it, he will try to make two "branes", or two "universes", collide. To understand (or at least try to understand) the concept of branes, we must dive into the string theory…

Branes and strings…

THE CONCEPT OF BRANES IS BORN FROM THE STRING THEORY AND THE THEORY CALLED "M", WHICH UNIFIES FIVE VERSIONS OF THE STRING THEORY (IT STARTS WELL…).

It must be known that after elaborating theories in numerous domains of scientific knowledge, theoreticians now try to unify all in one single theory.

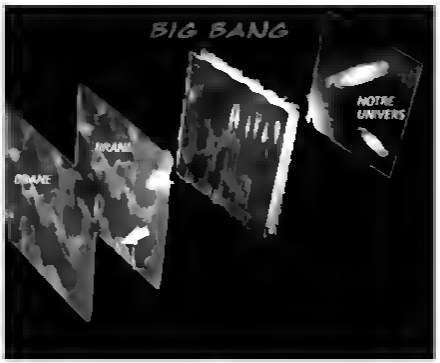
String theory is one of the candidates to this "theory of all" (let's mention the principal others, only the names, you will like them: Twistors, Loop quantum gravity, Causal dynamical triangulations, Noncommunicative geometry…).

It postulates that everything is built up from and governed by minuscule energy particles: strings that vibrate, and the manner of vibrating gives particles their properties. Without going into detail, just know that it challenges the way we look at the universe.

IN FACT, ACCORDING TO THIS THEORY, OUR UNIVERSE IS SITUATED ON A KIND OF MEMBRANE (OR "BRANE" IN SHORT) WHICH EVOLVES IN A SPACE THAT CONTAINS A LOT MORE DIMENSIONS* THAN WE ARE USED TO, A SPACE IN WHICH THERE EXISTS MULTIPLE OTHER INACCESSIBLE UNIVERSES.

The collision of two branes, or two parallel universes, triggers the Big Crunch or a Big Bang (thus, this theory also enables us to elucidate the origin of Big Bang, which is still a mystery). The Big Bang, then, isn't a rare and special event but a recurrent phenomenon…

*Time and the three coordinates of space are the scientific dimensions.



(source : http://cosmobranche.free.fr/UniversDimensions.htm)

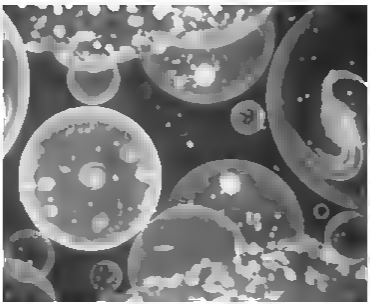
But let's not get lost in all these dimensions.

Multiple universes or "multiverses"

OUR UNIVERSE, AN EXEMPLAR AMONG OTHERS: A SCIENCE-FICTION SCENARIO, AND YET… SCIENTISTS REVIVE THIS ANCIENT IDEA (FIRST PUT FORWARD BY ANAXIMANDER IN THE 6TH CENTURY BC), WHICH COULD BRING INTERESTING SOLUTIONS TO THE PROBLEMS POSED BY THE ELABORATION OF "THEORIES OF ALL".

Thus, nothing would preclude the existence of a universe where you are reading this manga, another one where you are a famous mangaka, and another one in which life is different and physical events are the complete opposite of what we know… and all this at the same time! In fact, as long as there is no certitude about the existence of these universes, nothing can prohibit them… Which is very convenient for theoreticians. The following arguments can be made:

- The speed of light is finite, so we have access to limited information in space. However, according to the theory of relativity, space is infinite. Then, what is happening at the rest of the universe? Everything is possible!



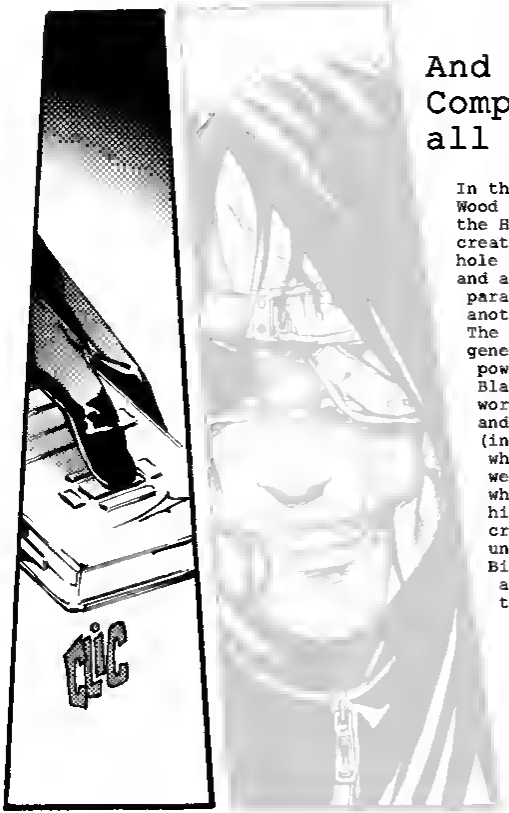
(source http://ovnis-usa.com/2009/04/30/jeudi-30-avril/)

Bubble representation of "multiverses",
parallel universes which are close to each other but inaccessible.

(source http //www chm ulaval ca/~chm13212/decouvrez/index html)

- In quantum mechanics, the science of the infinitely small which we are trying to harmonise with the science of our own scale and of the infinitely large, there is the principle of superposition of states, which explains that one particle can be in different states at the same moment. When applied to the universe, this principle leads to a superposition of multiple parallel universes.

AMONG ALL THESE UNIVERSES, THE "REAL" UNIVERSE IS THE ONE WHICH RESULTS FROM OUR CHOICES… IF WE SLIGHTLY EXTEND THIS VIEW PHILOSOPHICALLY.



And Omega Complex in all this?

In the manga, Wood wants to trigger the Big Crunch by creating a black hole in one world and another one in a parallel world (another univerae). The black holea are generated by the power of Sho's Blazar (in the actual world of the manga) and Kama's Pulsar (in the world created when Kama and Ananke went back in time, which changed the history and thus created another universe…). Once the Big Crunch ia achieved, Wood wants to create an emulated world, or cauae the creation of a new universe.

Emulated world and quantum computers

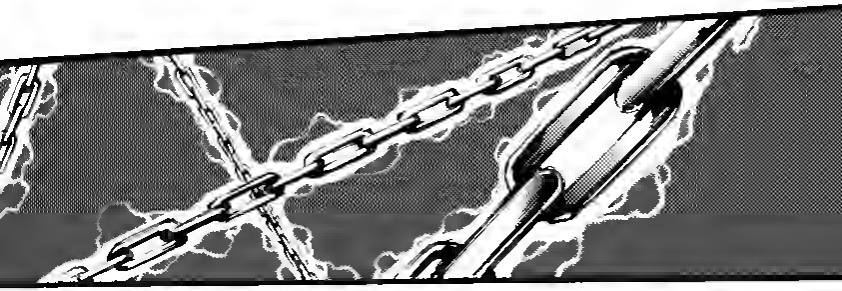
An "emulated" world is a world in which the lives of living beings are completely simulated by a system. This system must obviously have exceptional capacity for computation and memory, if only to record the DNA data of all beings that lived on Earth, for example. Thus, we need to look for technologies exceeding those we currently know, and use computers of a completely different kind: quantum computers.

The propertiea of atoma for an extraordinary power of computation in quantum computers.

(source http://qbit.com.mx/blog/2009/06/05/qbit-computadoras-quanticas/)

Current technology conaistently tends towards smaller and more powerful, but we will reach the limit soon. In fact, the more we miniaturise, the more we go into the universe of quantum physics, the physics of the infinitely small, the physics of atoms and elementary particlea. Its laws are very different than those of "classical" physics, which explain the events observable in our scale, but they prove to be particularly interesting. In fact, in the quantum world the principle of superposition of states ia applied, in other worda, particles can be in different statea at the same time. It's as if right now I could run, be in my bed and sunbathe in Malibu all at the same time.

Interesting, right?



In computers' case, this would allow them to do an astronomical number of computations in parallel, and thus increase the speed and power of current systems considerably. David Deutsch, a specialist in this domain, thinks that this type of computers could resolve any problem of physics, and any other problem beyond that. Let's also note the interesting progress this would bring to cryptography, for information security.. A bit too good to be true, you'll tell me. Indeed, there are numerous technical problems about the design of such a computer (such as how to retrieve the results of all these parallel computations), but we don't stop progressing..

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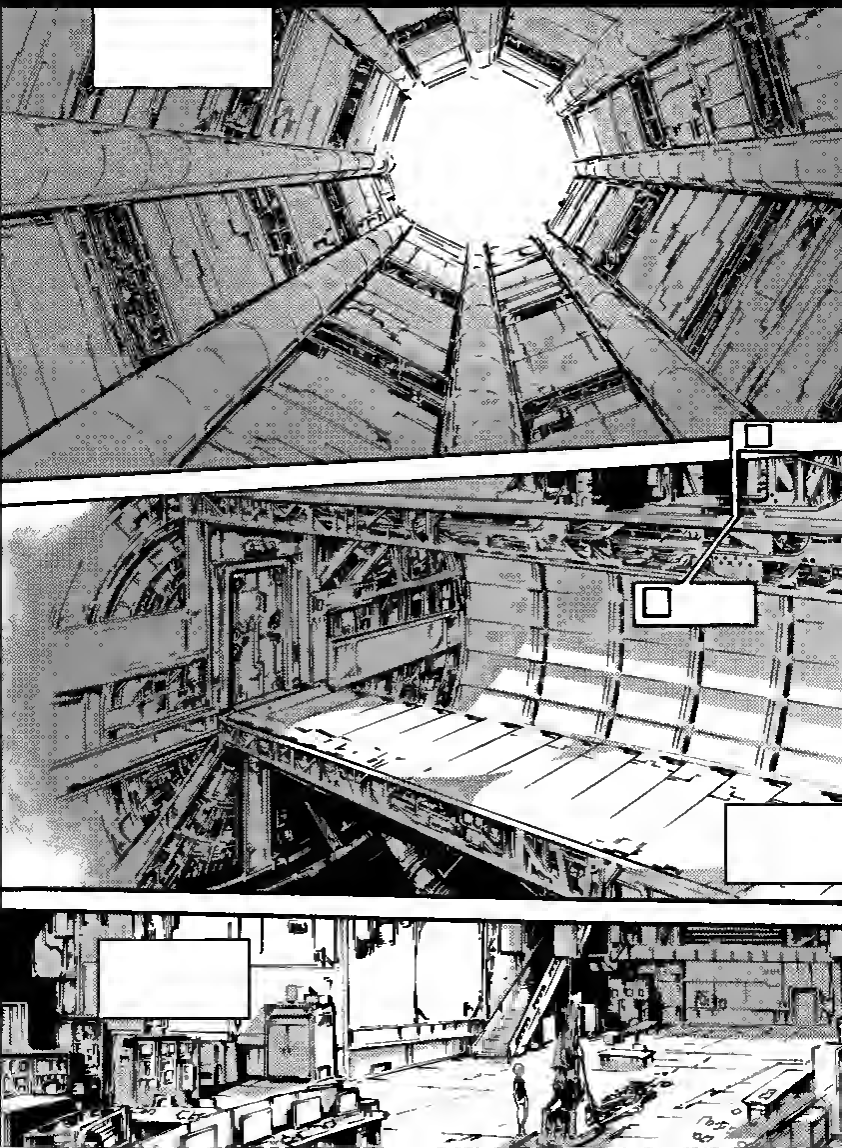
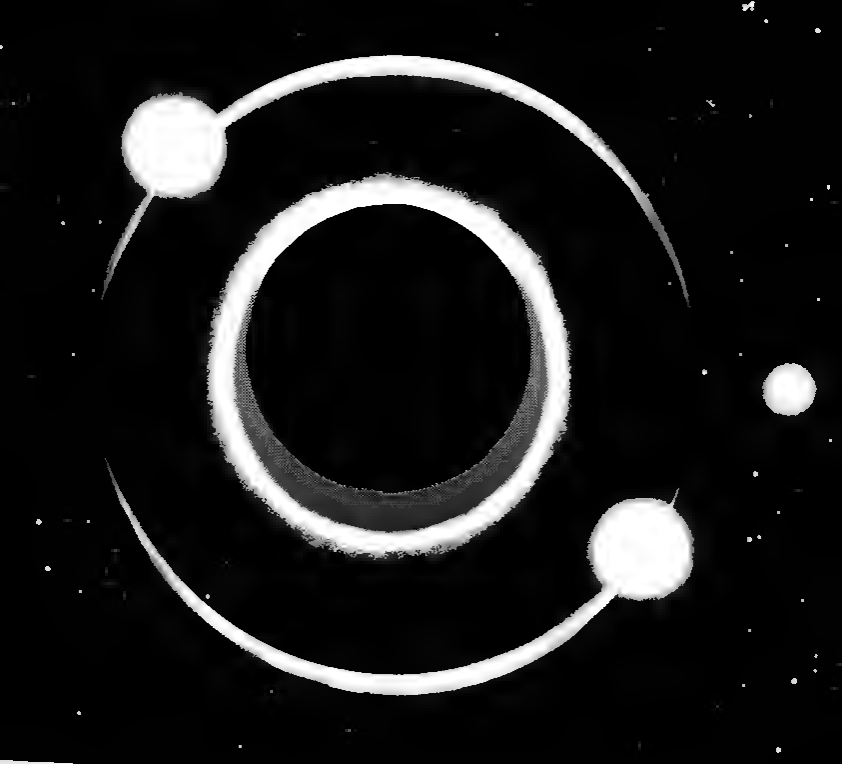
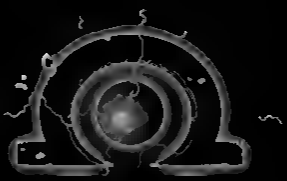


Let's conclude on a short note (and make an introduction, as it should be) on David Deutsch, who is behind this commotion about emulated worlds. This American scientist, with the appearance of Sheldon (the purists will understand…) went into high gear. While most pursue the Unified Field Theory try to combine the knowledge of physics and chemistry, he tries to unify what he considers to be the four main theories: the quantum mechanics, the theory of computation, the theory of knowledge and, to top it off, the theory of evolution! This gives a result at the boundaries of reality…





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